

Color Mixing with Diffusion and Absorption

From The Science Seed



KEY CONCEPTS/VOCABULARY (What you need to know)

- diffusion: when a gas or liquid spreads out to fill a space
- absorption: when something soaks up something else
- observation: something you saw, heard or noticed
- hypothesis: an educated guess as to what will happen in an experiment

QUESTION (What you want to learn and what to ask the children)

These questions should be asked in order so that children learn that a hypothesis is a guess about what will happen in the experiment. This expands their science vocabulary.

- What do you think will happen if we spray water on the colored coffee filters? What is your hypothesis or guess?
- What do you think will happen if we sprinkle salt on top of the water? What is your hypothesis or guess?

EXPERIMENT

Materials (What you need)

Coffee filters, red, blue and yellow washable markers, spray bottle filled with water, kosher salt

Procedures (What to do)

- Tell children they are going to color coffee filters with markers
- Ask the Questions and listen to their hypotheses
- Color coffee filters with red, yellow and blue washable markers
- Squirt coffee filter with spray bottle 4-5 times
- Sprinkle kosher salt on the filter

CONCLUSION

Results (What happened?)

- The colors spread out, or diffused, on the coffee filters
- New colors were formed
- The salt soaked up or absorbed some of the colors